L	Hits	→Search Text	DB	Time stamp
Number				
1	2	6493097.pn.	USPAT;	2003/03/19
			US-PGPUB;	10:41
		/*	EPO; JPO;	
			DERWENT	
2	4479	'polariz\$4 near3 chang\$4	USPAT;	2003/03/19
			US-PGPUB;	10:42
			EPO; JPO;	
		·	DERWENT	
3	0	6493097.pn. and (polariz\$4 near3 chang\$4)	USPAT;	2003/03/19
			US-PGPUB;	10:42
		<u>.</u>	EPO; JPO;	
		Ţ.	DERWENT	
4	9080	TIR or (total near3 internal near3	USPAT;	2003/03/19
		reflect\$4)	US-PGPUB;	10:43
	•		EPO; JPO;	
			DERWENT	
5	184	(polariz\$4 near3 chang\$4) and (TIR or	USPAT;	2003/03/19
	7.	(total near3 internal near3 reflect\$4))	US-PGPUB;	10:43
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	EPO; JPO;	
		! .	DERWENT	

DERWENT-ACC-NO: 2003-067645

DERWENT-WEEK: 200306

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TITLE: Imaging apparatus, for detecting biological agents or chemical substances, has polarization sensitive two-dimensional array detector, to detect spatially distributed polarization change of specimen irradiated with polarized light

INVENTOR: KEMPEN, L U

PATENT-ASSIGNEE: MAVEN TECHNOLOGIES LLC[MAVEN]

PRIORITY-DATA: 2002US-0838700 (January 12, 2002), 2001US-0838700 (April 19, 2001).

PATENT-FAMILY:

PUB-NO PUB-DATE

LANGUAGE PAGES MAIN-IPC WO 200286468 October 31, 2002

E 019 G01N 021/17

Α1

DESIGNATED-STATES: AE AG AL AU BA BB BG BR BZ CA CN CR CU CZ DM DZ EE GD GE HR HU ID IL IN IS JP KP KR LC LK LR LT LV MA MG MK MN MX NO NZ PL RO SG SI SK SL TR

TT UA US UZ VN YU ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO

APPL-DESCRIPTOR

APPL-NO

APPL-DATE

WO

N/A

2002W0-US02662

January 27, 2002

200286468A1

INT-CL (IPC): G01J004/00; G01N021/17

RELATED-ACC-NO: 2002-433912;2002-730996

ABSTRACTED-PUB-NO: WO 200286468A
BASIC-ABSTRACT: NOVELTY - A polarized light
source (12) radiates polarized
light onto a specimen within the evanescent
field associated with the total
internal reflection (TIR) of a TIR surface
(14). A polarization sensitive
two-dimensional array detector (16) detects
the light beam reflected from the
TIR surface along with spatially distributed
polarization change caused by the
specimen.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for;

- (1) chemical specimen array imaging method; and
- (2) two-dimensional distributed chemical

specimen array characterization method.

USE - For detecting the presence, composition, quantity and spatial distribution of substances, such as biological agents or chemical substances.

ADVANTAGE - The detector detects the spatially distributed polarization change in the specimen, the characteristics of the specimen is determined accurately without the need for attaching fluorescent markers or other molecular tags to the substances.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the imaging apparatus.

Light source 12

TIR surface 14

Polarization sensitive two-dimensional array detector 16

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS:

IMAGE APPARATUS DETECT BIOLOGICAL AGENT CHEMICAL SUBSTANCE POLARISE SENSITIVE TWO DIMENSION ARRAY DETECT DETECT SPACE DISTRIBUTE POLARISE CHANGE SPECIMEN IRRADIATE POLARISE LIGHT

DERWENT-CLASS: B04 D16 J04 S03

CPI-CODES: B11-C08; B11-C08B; B12-K04; D05-H09; J04-C02;

EPI-CODES: S03-E04B5;

CHEMICAL-CODES:
Chemical Indexing M6 *01*
Fragmentation Code
M905 Q233 Q435 R501 R515 R533 R639

SECONDARY-ACC-NO: CPI Secondary Accession Numbers: C2003-017721 Non-CPI Secondary Accession Numbers: N2003-052463